NSCS
Athens, GA

NAVSUP

NAVAL INVENTORY CONTROL POINT

UNITED STATES NAVY SERIAL NUMBER TRACKING

SNT

SNT

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
CDR, USN
12 August 2004

Outline

- Background/Overview
- Implementation
  - ✓ System Access
  - ✓ AIT
- Demonstrations
- Aviation Rollout
- Military Standards
  (Product, Package, Contracts, IRRD)
- Web Site - Reports
- Future / Initiatives
- Summary

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- ↓ Lower Maintenance & Supply Cost
- ↑ Increase Readiness

System Concept

Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

SNT System Goals

Major Benefits

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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SNT Foundation

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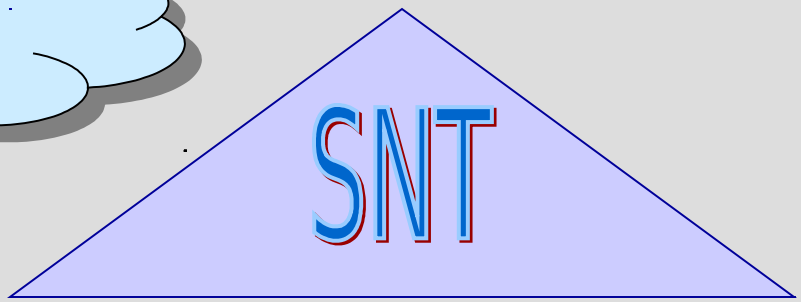
Implementation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRIL/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- PDF417 2D
- ISO15418/15434
- MIL-STD-129
- MIL-STD-130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by SNT to maintain data accuracy.

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Aviation Asset/Information Flow

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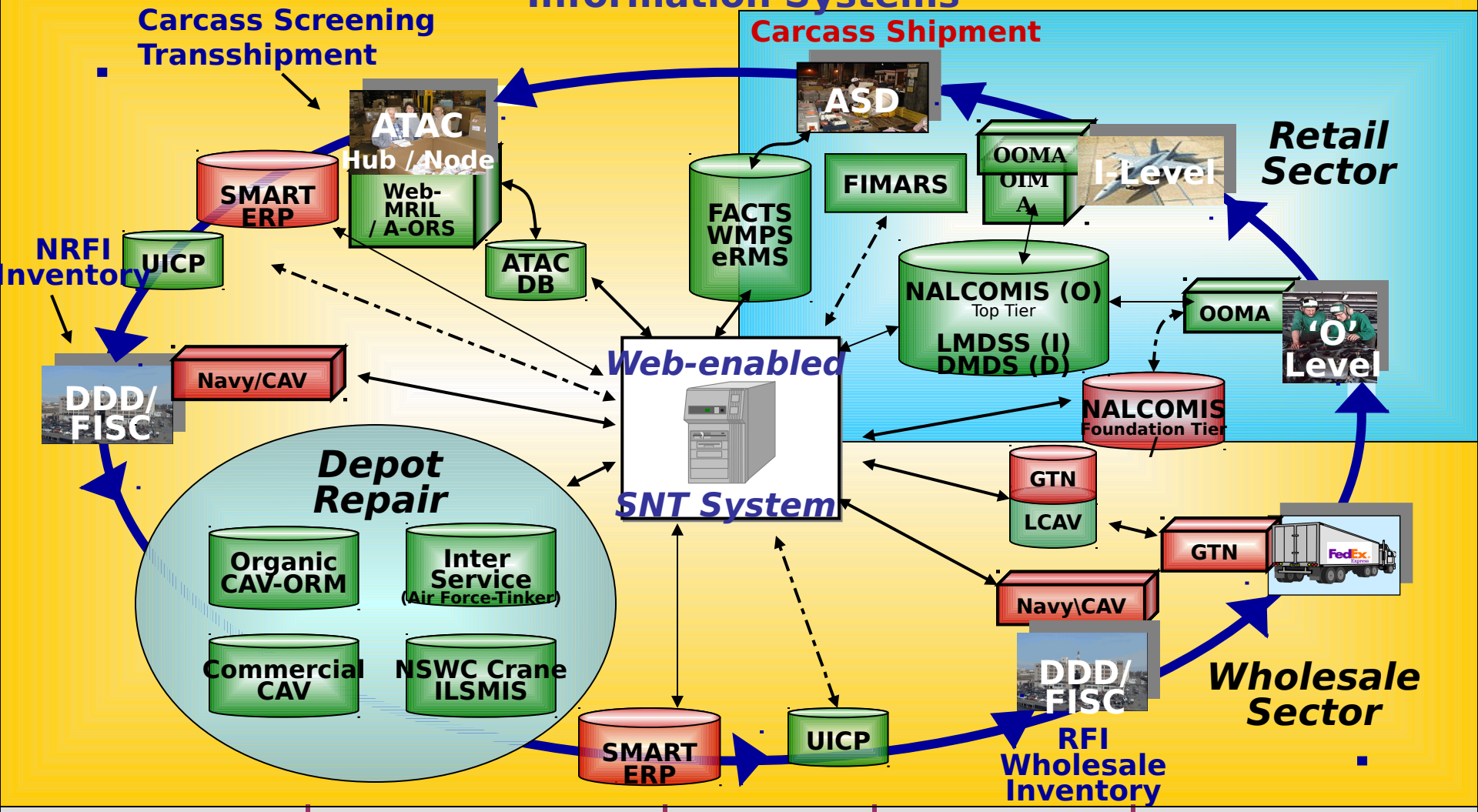
Overview

Information Systems



Connectivity | Not Connected | S/N | No S/N | Asset Flow

CMB

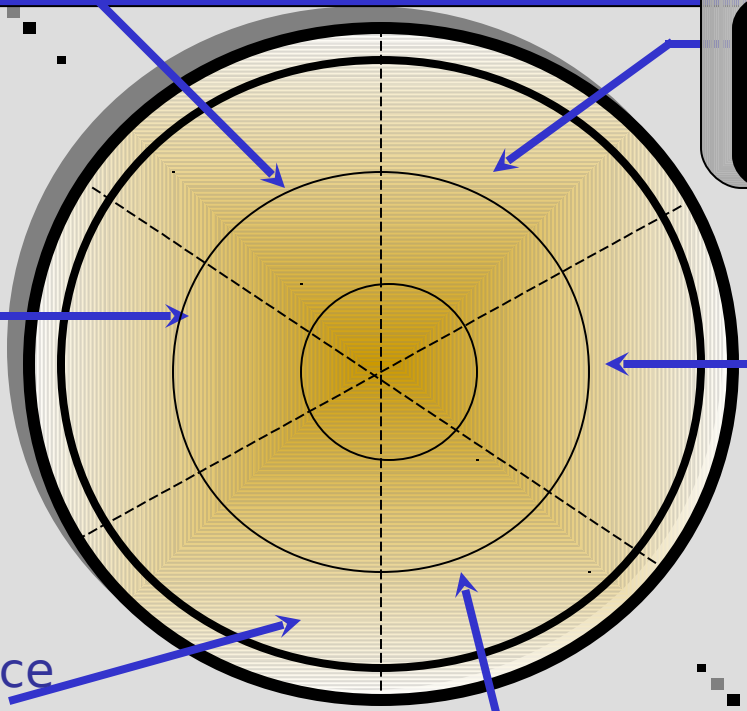
Contact Memory Button (CMB)

Scheduled Removal Component Card

Name Plate Data

Computer, Air Data CPU-175/A

P/N	50-100-01	SERNO	0152
MFR	K0656	CONTR	F33657-85C-0025



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

Demonstrations

- H-60/HSL-40
- SCADC
- SQQ-32 SONAR
- HOSS Camera (AN/SXY-1)
- CAMS II A5 MODULE on SUBMARIN

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Unique Identification (UID)

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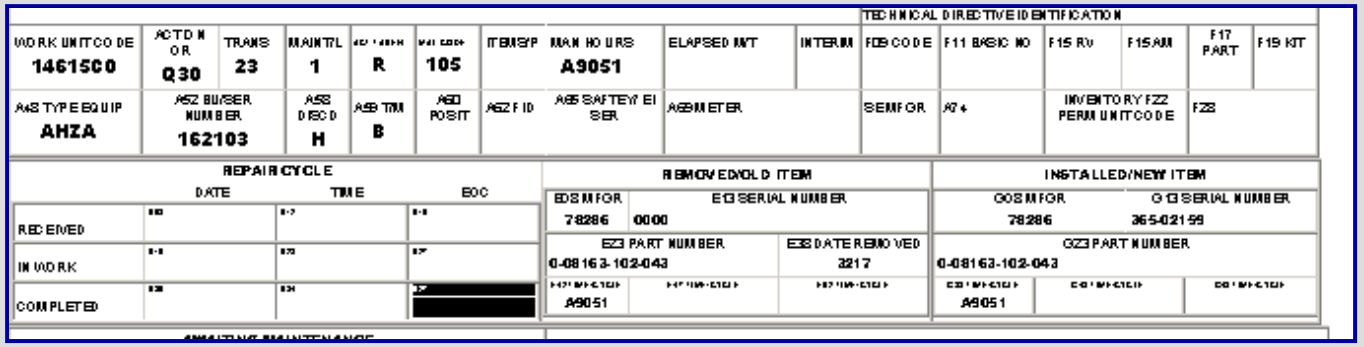
- UID consists of CAGE, P/N, S/N. Be able to create UID (w
- Groundwork laid by many databases accessed by SNTS
- Requirement to be added to contracts as policy develop



CAGE	Part Number	Serial Number
78286	G0816102043	365-02519
68286	G0816102043	365-02520

Unique Identifier
D78286G081610204336502519

Data Matrix/UID Marking

AC D — CAGE 78286 — Part Number G0816102043 — Serial Number 36502519

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Retrograde from Customer

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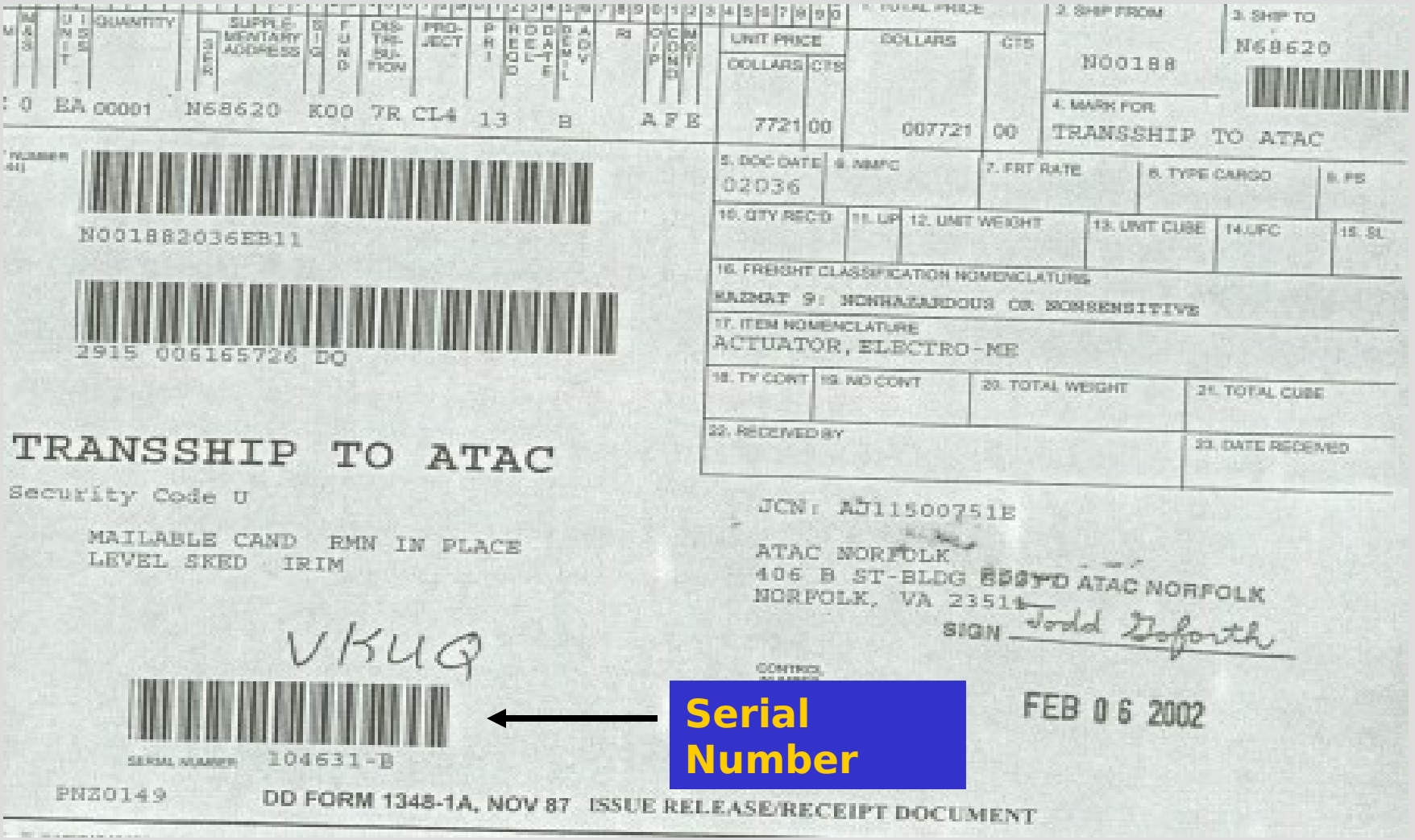
IRRD - AIT



Serial Number

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Retrograde to DD

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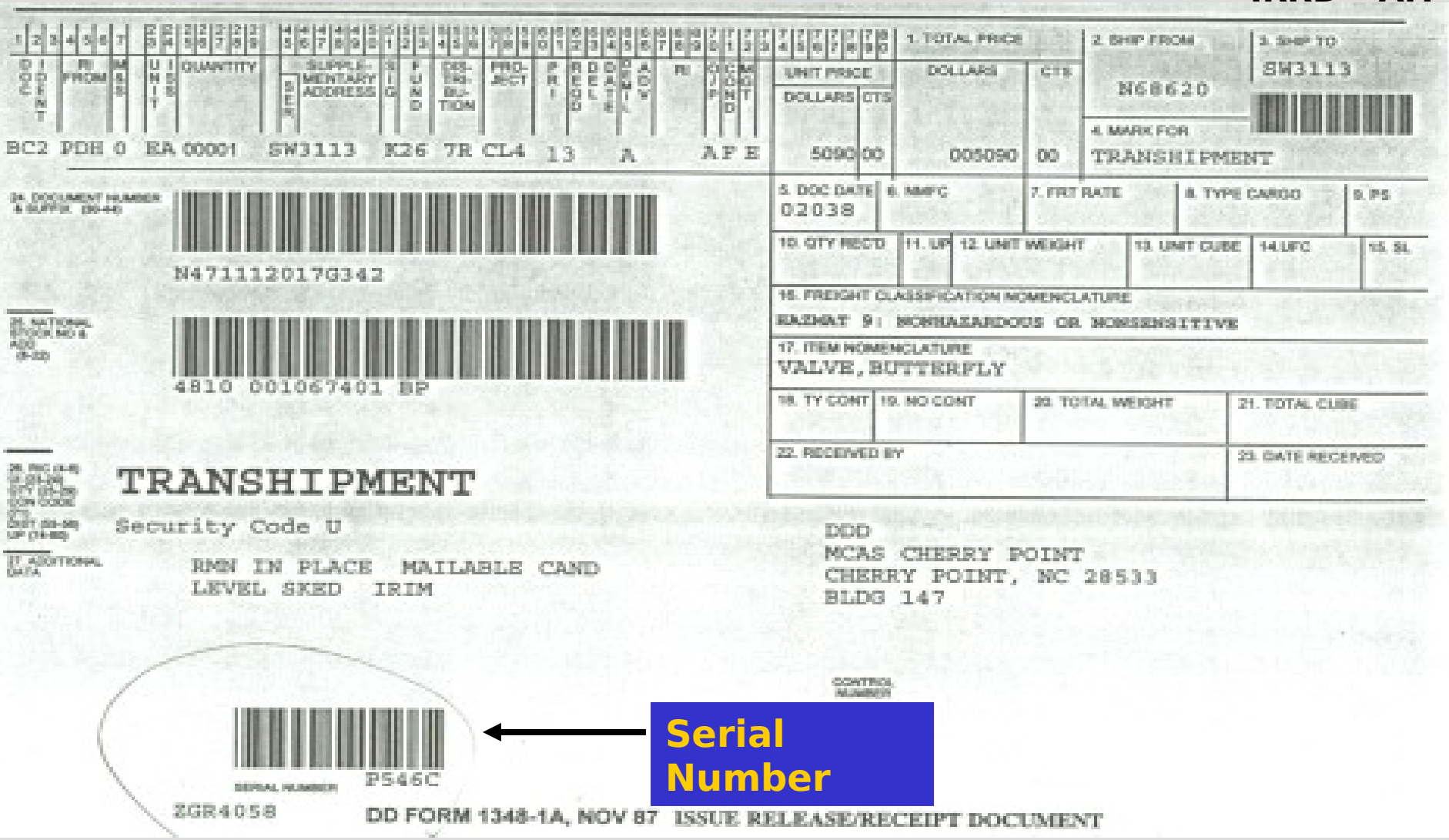
IRRD – AIT



Serial Number

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SNT Homepage

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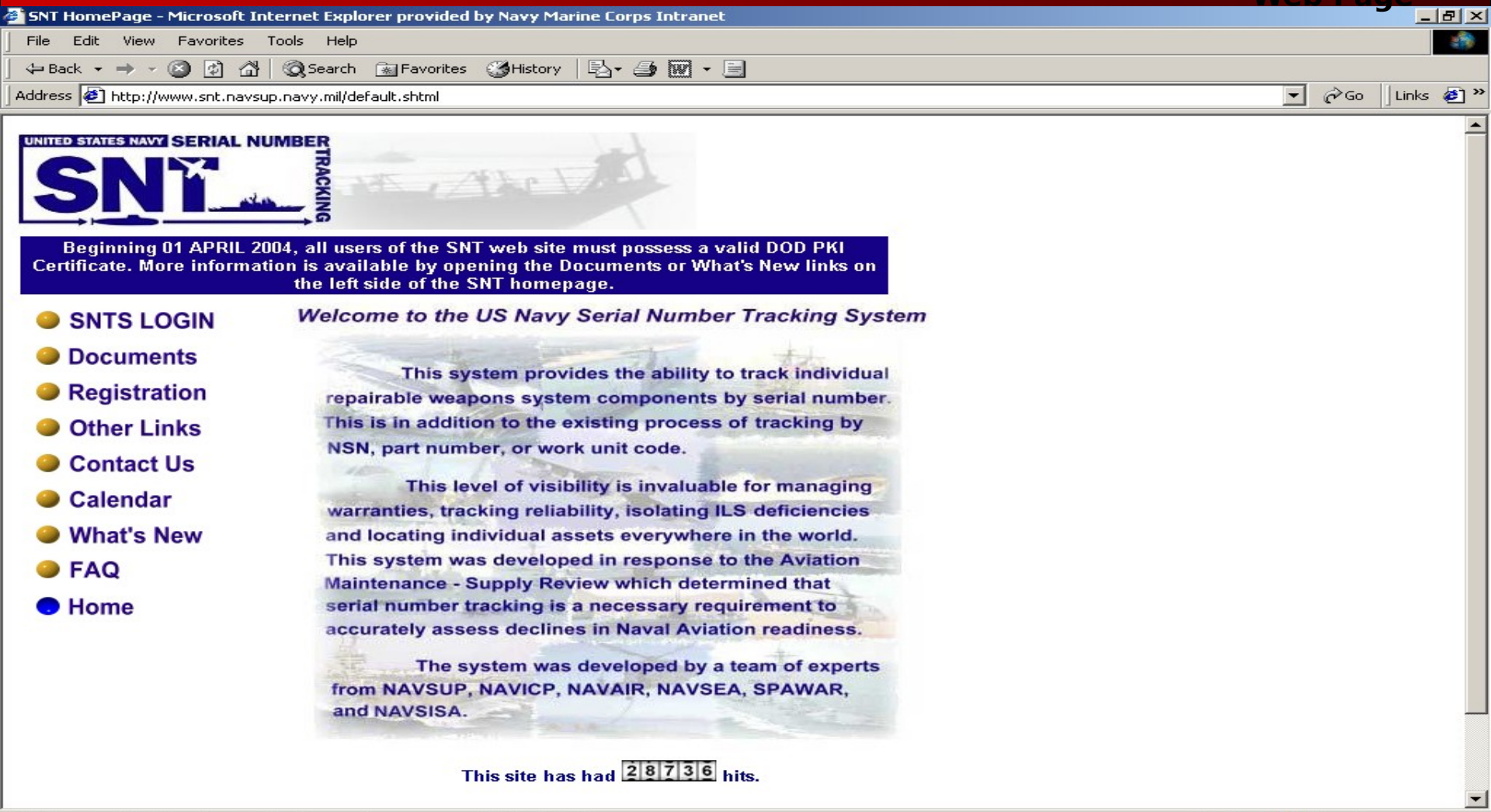
Web Page


SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://www.snt.navsup.navy.mil/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Beginning 01 APRIL 2004, all users of the SNT web site must possess a valid DOD PKI Certificate. More information is available by opening the Documents or What's New links on the left side of the SNT homepage.
SNTS LOGIN
Documents
Registration
Other Links
Contact Us
Calendar
What's New
FAQ
Home
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and NAVSISA.
This site has had 28736 hits.
(1 item remaining) Opening page http://www.snt.navsup.n
Internet
Start
Inbox - Microsoft Outlook
Microsoft
14:51

www.snt.navsup.navy.mil

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SNT Web Page Query Results

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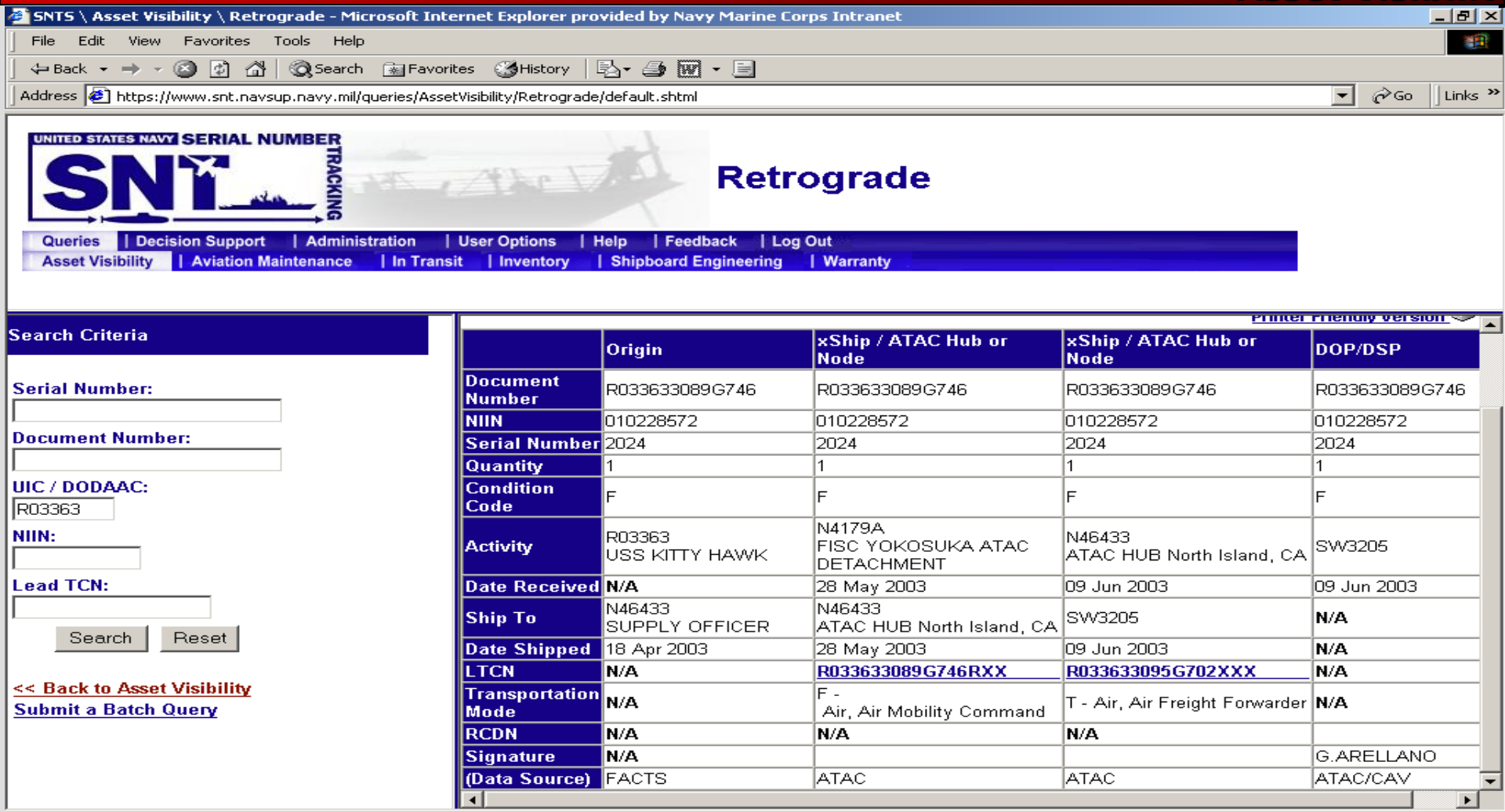
Asset Visibility


SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.snt.navsup.navy.mil/queries/AssetVisibility/Retrograde/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Retrograde
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty
Search Criteria
Serial Number:
Document Number:
UIC / DODAAC:
R03363
NIIN:
Lead TCN:
Search
Reset
<< Back to Asset Visibility
Submit a Batch Query
Printer Friendly Version
Internet
Start
ICP Mech - Micro...
\\naeamechfs01v...
SNTS \ Asset Vi...
Document1 - Micr...
10:42

	Origin	xShip / ATAC Hub or Node	xShip / ATAC Hub or Node	DOP/DSP
Document Number	R033633089G746	R033633089G746	R033633089G746	R033633089G746
NIIN	010228572	010228572	010228572	010228572
Serial Number	2024	2024	2024	2024
Quantity	1	1	1	1
Condition Code	F	F	F	F
Activity	R03363 USS KITTY HAWK	N4179A FISC YOKOSUKA ATAC DETACHMENT	N46433 ATAC HUB North Island, CA	SW3205
Date Received	N/A	28 May 2003	09 Jun 2003	09 Jun 2003
Ship To	N46433 SUPPLY OFFICER	N46433 ATAC HUB North Island, CA	SW3205	N/A
Date Shipped	18 Apr 2003	28 May 2003	09 Jun 2003	N/A
LTCN	N/A	R033633089G746RXX	R033633095G702XXX	N/A
Transportation Mode	N/A	F - Air, Air Mobility Command	T - Air, Air Freight Forwarder	N/A
RCDN	N/A	N/A	N/A	
Signature	N/A			G.ARELLANO
(Data Source)	FACTS	ATAC	ATAC	ATAC/CAV

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SNT Web Page Query Results

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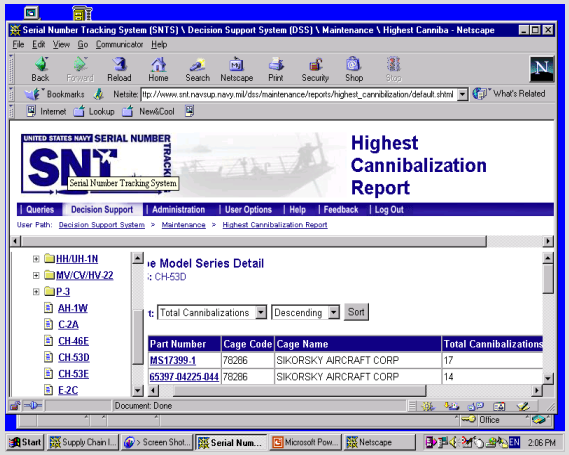
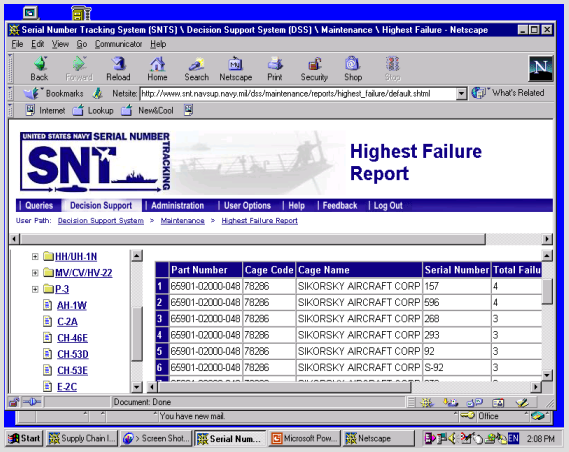
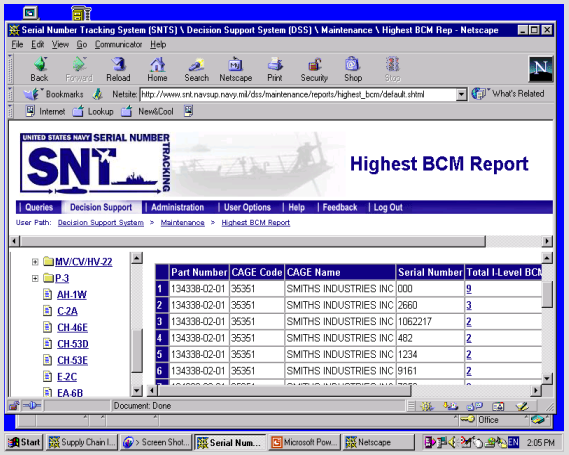
Decision Support

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports







Additional Reports – Top Cost Driver, Top Degraders

Carcass Tracking Watch

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Serial Number Tracking System (SNTS) \ Decision Support Module (DSM) \ Retrograde \ Carcass Tra - Microsoft Internet Explorer p
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.snt.navsup.navy.mil/dss/retrograde/carcass_tracking/add_watch_form.shtml?action=add_form&watch_type=1
Go Links
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Carcass Tracking Watches
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
User Path: Decision Support Module > Retrograde > Carcass Tracking
Add New Carcass Watch
Document Number
R03363 - 3072 - G660 -
Timeframe:
Past 90 days
Email Notifications
Email Notifications will be sent to pamela.szymczak@navy.mil. Do you wish to receive Email Notifications for this Carcass Watch?
Yes
No
Add Cancel
Internet
Start
Inbox - Microsoft ...
Serial Number T...
Pitches
Microsoft Excel - 7...
Microsoft PowerP...
10:53

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Carcass Watch Notification

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Dear _____
This is an email notifying you of the status of your Carcass Watches:
Document Number: N00188-3155-GC23
NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 0
Shipped From: N00188 - NAVAL AIR STATION OCEANA
Date Shipped:
LTCN:
Transportation Mode: -
Ship To: N68620 - ATAC HUB Norfolk, VA
Date Received:

NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 1
Shipped From: N68620 - ATAC HUB Norfolk, VA
Date Shipped:
LTCN: N001883155GC23XXX
Transportation Mode: T - Air, Air Freight Forwarder
Ship To: SW3142
Date Received: 2003-06-05

Maritime Focus

DATA BASE ACCESS:

- **CDMD-0A**
  - ✓ **Display Shipboard Configuration Data**
- **LCAV**
  - ✓ **In Transit Query**

INITIATIVES:

- **GPETE Working with NAVSEA Code 04L52**
- **Ship Configuration Validation – Working with NAVSEA Code 04L51**
- **Rapid Securing Device (RSD)**
- **AN/UYQ-70**
- **AEGIS Tubes**
- **MK92 TWT**
- **BARCO ATDC monitors and COHU cameras (Tomahawk).**
- **Digital Modular Radio System**

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Future/Initiatives

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- Access to serialized repairable data in DLA warehouse
- Revise Web Page to UID Search when Info Sys House
- Establish capability to include S/N Info W/ ERP
- Access GTN & ERP for UID/S/N Info
- Gain visibility of Navy Assets held at interservice acti
- Assist in establishing 2D data Matrix on Components
- Work w/ PPP&M to include UID type info on Package M

Summary

- SNT Project well underway
- SNTS Web Application on line – accessing live data
  - ✓ Decision Support and Reliability Modules
- Prototypes completed - proven concept
- Complying with DoD directives
- Future enhancements to include DLA, Interservice, ERP, GTN, and Single Query capability.

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Shipboard Asset/Information Flow

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System Access

Carcass Screening
Transshipment

Carcass Shipment

ATAC

SIMA

Shipboard Supply

CDMD-OA

(O)-Level

Retail Sector

Web-MRIL / A-ORS

(Future) NEMAIS

FACTS WMPS eRMS

OMMS

3M DB

UICP

NRFI Inventory

ATAC DB

R-Supply

Shipboard Inv

DDD/ FISC

Navy/CAV

Web-enabled

FIMARS

SNT System

Depot Repair

Organic CAV-ORM

Inter Service (Air Force-Tinker)

Commercial CAV

NSWC Crane ILSMIS

GTN

LCAV

GTN

Navy\CAV

DDD/ FISC

UICP

Wholesale Sector

Connectivity | Not Connected | S/N | No S/N | Asset Flow